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Safety Informations

	The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE PROJECTOR TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Important Safety Instruction

1. Read these instructions -before using this projector.
2. Keep these instructions -for future reference.
3. Follow all instructions.
4. Install in accordance with the manufacturer's instructions :
 - A. Do not block any ventilation openings.** To ensure reliable operation of the projector and to protect it from overheating, put the projector in a position and location that will not interfere with its proper ventilation. For example, do not place the projector on a bed, sofa, carpet, or similar surface that may block the ventilation openings. Do not put it in an enclosure, such as a bookcase or a cabinet that may keep air from flowing through its ventilation openings.
 - B. Do not use this projector near water or moisture.** To reduce the risk of fire or electric shock, do not expose the projector to rain or moisture.
 - C. Do not install near any heat sources,** such as radiators, heaters, stoves or other apparatus (including amplifiers) that produce heat.
5. Clean only with a dry cloth.
6. Only use attachments/accessories specified by the manufacturer.
7. Refer all servicing to qualified service personnel. Servicing is required when the projector has been damaged in any way, such as:
 - ☐ Power supply cord or plug is damaged.
 - ☐ Liquids have spilled or objects have fallen into the apparatus.
 - ☐ The projector has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not attempt to service this projector yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma to be referred to an authorized service center near you.
8. Do not let objects or liquids enter the projector as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
9. See projector enclosure for safety related markings.
10. The projector should not be adjusted or repaired by anyone except properly qualified service personnel.

Precautions



Please follow all warnings, precautions and maintenance as recommended in this user's guide.

- Warning- Do not look into the projector's lens when the lamp is on. The bright light may damage your eyes.
- Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.
- Warning- Please do not open or disassemble the projector as this may cause electric shock.
- Warning- When replacing the lamp, please allow unit to cool down, and follow all replacement instructions. See pages 44-45.
- Warning- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning- Use the "Lamp Reset" function from the on-screen display "Options | Lamp Settings" menu after replacing the lamp module (refer to page 37).
- Warning- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting the power. Allow 90 seconds for the projector to cool down.
- Warning- Do not use the lens cap when projector is in operation.
- Warning- When the lamp is approaching to the end of its life, the message "Lamp Warning: Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- Warning- To reduce the risk of injury to the eyes, do not look directly into the laser beam on the remote control and do not point the laser beam into anyone's eyes. This remote control is equipped with a Class II laser that emits radiation.



- ❖ When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 44-45.

Usage Notice

Do:

- ❖ Turn off the product before cleaning.
- ❖ Use a soft cloth moistened with a mild detergent to clean the display housing.
- ❖ Disconnect the power plug from the AC outlet if the product is not being used for a long period of time.

Don't:

- ❖ Do not block the ventilation slots and openings on the unit.
- ❖ Do not use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Do not use under the following conditions:
 - In extremely hot, cold or humid environments.
 - ▶ Ensure that the ambient room temperature is within 5 - 35°C
 - ▶ Relative Humidity is 5 - 35°C, 80% (Max.), non-condensing
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance that generates a strong magnetic field.
 - In direct sunlight.

Eye Safety Warnings



- ■ Avoid staring directly into the projector's beam of light at all times.
- ■ Minimize standing facing into the beam. Keep your back to the beam as much as possible.
- ■ Using a stick or laser pointer is recommended to avoid the need for the presenter to enter the beam.
- ■ Ensure that projectors are located out of the line of sight from the screen to the audience; this ensures that, when presenters look at the audience, they do not also have to stare at the projector lamp. The best way to achieve this is by ceiling-mounting the projector rather than placing it on floor or table top.
- ■ When projector is used in a classroom, adequately supervise students when they are asked to point out something on the screen.
- ■ In order to minimize the lamp power needed, use room blinds to reduce ambient light levels.

Product Features

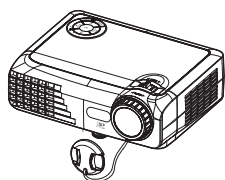
*This product is a XGA single chip 0.55" DLP® projector.
Outstanding features include:*

- ◆ True XGA, 1024 x 768 addressable pixels
- ◆ Texas Instruments Single chip DLP® Technology
- ◆ NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible (480i/p, 576i/p, 720p, 1080i)
- ◆ Auto source detection with user definable settings
- ◆ Full function IR remote control with mouse function
- ◆ User friendly multilingual On Screen Menu
- ◆ Advanced digital keystone correction and high quality full screen image re-scaling
- ◆ User friendly control panel
- ◆ Macintosh and PC compatible

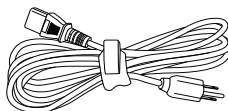
Introduction

Package Overview

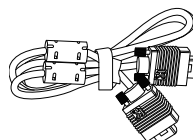
This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.



Projector with lens cap



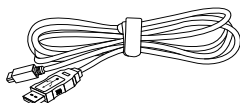
Power Cord



VGA Cable



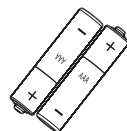
❖ Due to the difference in applications for each country, some regions may have different accessories.



USB Cable



IR Remote Control



2 x AAA Batteries



Soft Carry Bag

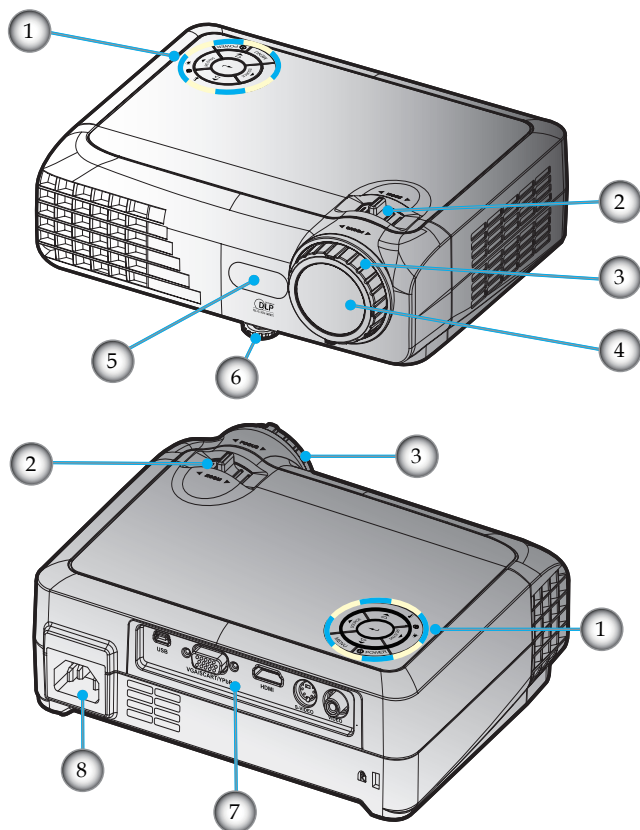
Documentation :

- ☒ User's Manual
- ☒ Quick Start Card
- ☒ Warranty Card
- ☒ WEEE Card

Introduction

Product Overview

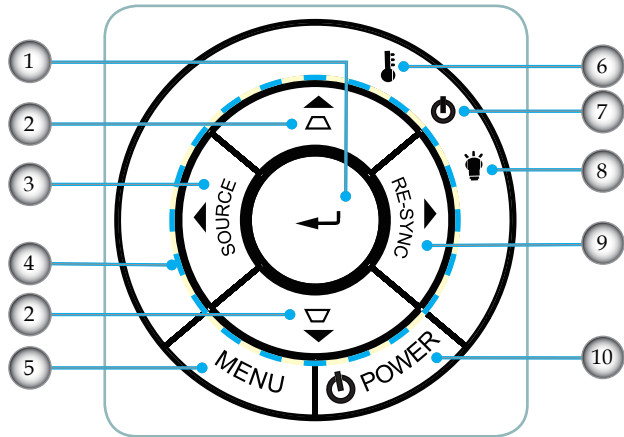
Main Unit



- | | |
|------------------|-------------------------|
| 1. Control Panel | 5. IR Receiver |
| 2. Zoom | 6. Tilt-Adjustment Foot |
| 3. Focus | 7. Connection Ports |
| 4. Zoom Lens | 8. Power Socket |

Introduction

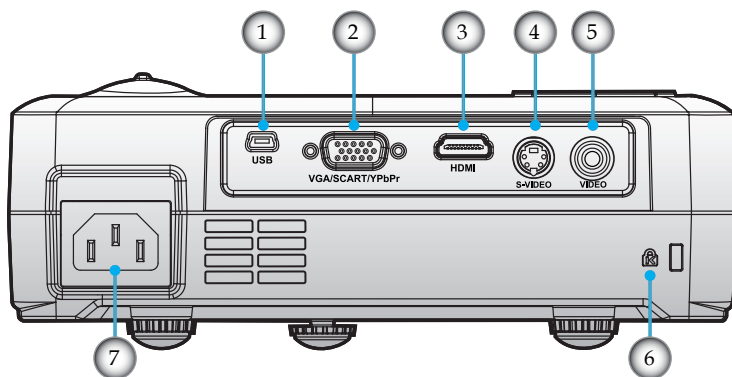
Control Panel



1. Enter
2. Keystone Correction
3. Source
4. Four Directional Select Keys
5. Menu
6. Temp LED
7. Power LED
8. Lamp LED
9. Re-Sync
10. Power

Introduction

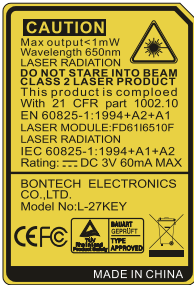
Connection Ports



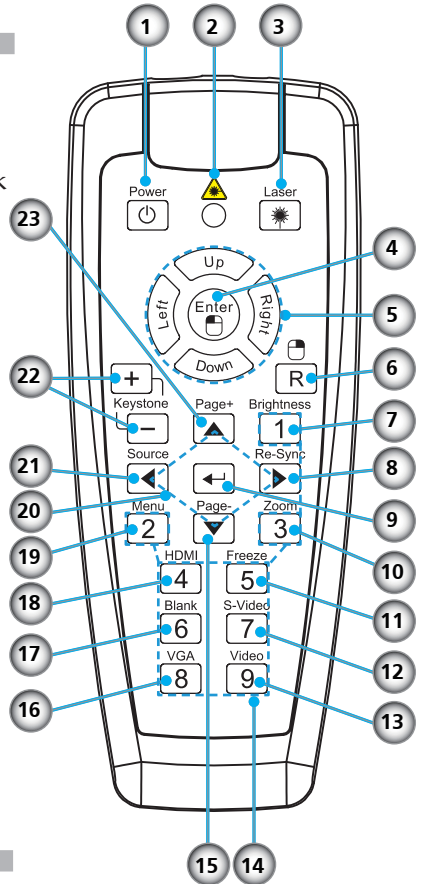
1. USB Connector
2. VGA Input Connector (PC Analog Signal/Component Video Input/HDTV/SCART)
3. HDMI Connector
4. S-Video Input Connector
5. Composite Video Input Connector
6. Kensington™ Lock Port
7. Power Socket

Introduction

Remote Control

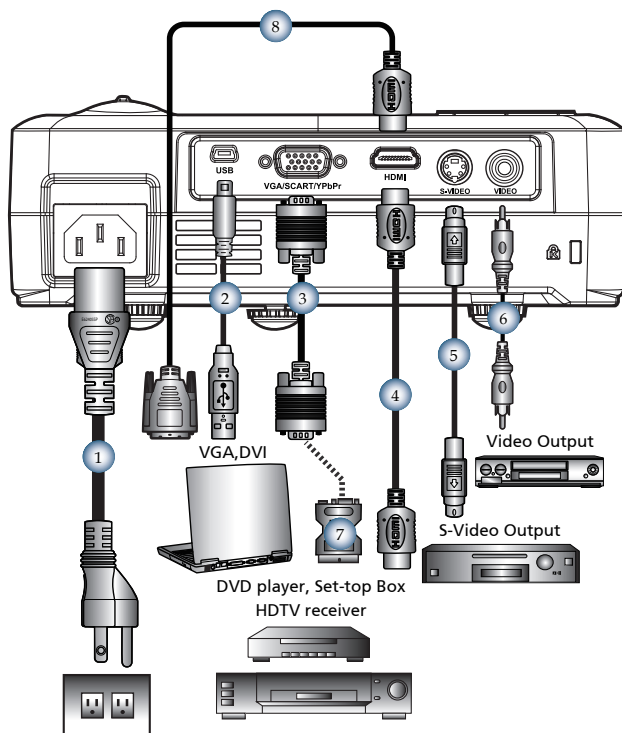


1. Power On/Off
2. Laser LED
3. Laser Button
4. Enter/Mouse Left Click
5. PC/Mouse Control
6. Mouse Right Click
7. Brightness
8. Re-Sync
9. Enter
10. Zoom
11. Freeze
12. S-Video Source
13. Video Source
14. Number Buttons
15. Page Down
16. VGA Source
17. Blank
18. HDMI Source
19. Menu
20. Four Directional Select Keys
21. Source
22. Keystone +/-
23. Page Up



Installation

Connecting the Projector



❖ Due to the difference in applications for each country, some regions may have different accessories.

- | | |
|--------|--|
| 1..... | Power Cord |
| 2..... | USB Cable |
| 3..... | VGA Cable |
| 4..... | HDMI Cable (Optional Accessory) |
| 5..... | S-Video Cable (Optional Accessory) |
| 6..... | Composite Video Cable (Optional Accessory) |
| 7..... | SCART RGB/S-Video Adapter (Optional Accessory) |
| 8..... | DVI/HDMI Cable (Optional Accessory) |

Powering On/Off the Projector

Powering On the Projector

1. Open the lens cap. ❶
2. Ensure that the power cord and signal cable are securely connected. ❷ The Power LED will be Amber.
3. Turn on the lamp by pressing “Power” button either on the top of the projector or pressing “Power” button on the remote. The Power LED will flash green.

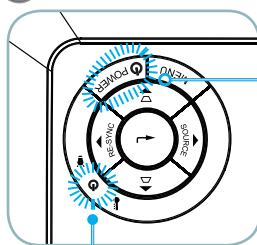
The startup screen will display in approximately 10 seconds. The first time you use the projector, you can select your preferred language from quick menu after the startup screen display.

4. Turn on your source (computer, notebook, video player, etc.). The projector will detect your source automatically.
- ❖ If the screen displays “No Signal”, please make sure the signal cables are securely connected.
 - ❖ If you connect multiple sources at the same time, press the “Source” button on the control panel or direct source key on the remote control to switch between inputs.

❷ Power

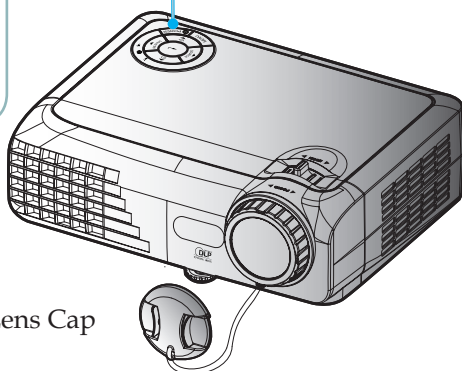


- ❖ Turn on the projector first and then select the signal sources.



Power LED

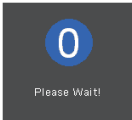
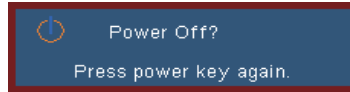
❶ Lens Cap



Installation

Powering Off the Projector

1. Press the “Power” button to turn off the projector lamp, you will see a message displayed on the projector’s screen.



2. Press the “Power” button again to confirm, otherwise the message will disappear after 15 seconds.
When you press “Power” button second, the system will show the timing countdown on the screen.
3. The cooling fans continue to operate for about 10 seconds for cooling cycle. When the Power LED turn Amber, the projector has entered standby mode.
 - ❖ *If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press “Power” button to restart the projector.*
4. Disconnect the power cord from the electrical outlet and the projector.
5. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

- ❖ When the “LAMP” indicator lights red, it indicates problem with the lamp and the projector will automatically shut down by itself. Please contact your local reseller or service center. See pages 47-48.
- ❖ When the “TEMP” indicator lights red, it indicates the projector has overheated. The projector will automatically shut itself down.
Under normal conditions, the projector can be switched on again after it has cooled down. If the problem persists, you should contact your local dealer or our service center. See pages 47-48.
- ❖ When the “TEMP” indicator flashes red, it indicates the fan has failed. Please contact your local dealer or our service center. See pages 47-48.

Adjusting the Projected Image

Adjusting the Projector's Height

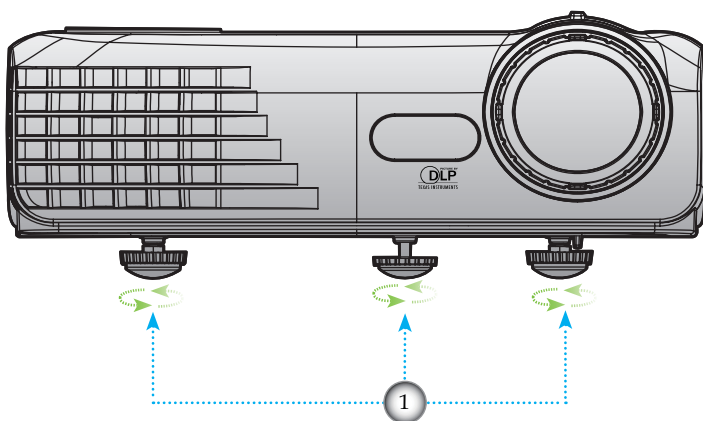
The projector is equipped with tilt-adjustment foot for adjusting the image height.

To raise the image:

Use screw in foot to raise the image to the desired height angle and fine-tune the display angle ❶.

To lower the image:

Use screw in foot to lower the image to the desired height angle and fine-tune the display angle ❶.

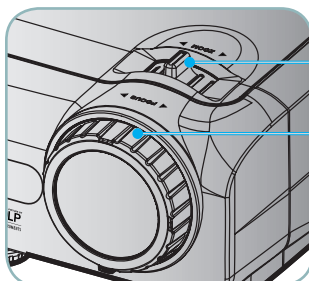


Tilt-Adjustment Feet

Installation

Adjusting the Projector's Zoom / Focus

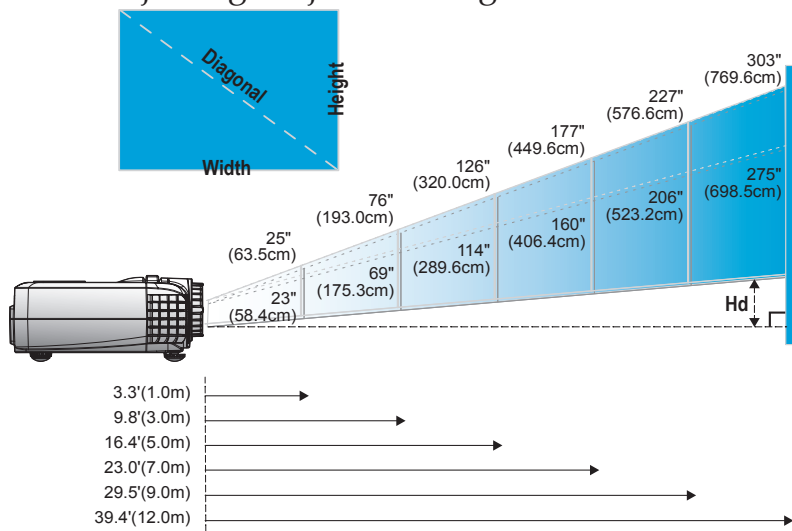
You may turn the zoom lever to zoom in or out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 3.3 to 39.4 feet (1.00 to 12.0 meters).



Zoom Lever

Focus Ring

Adjusting Projection Image Size



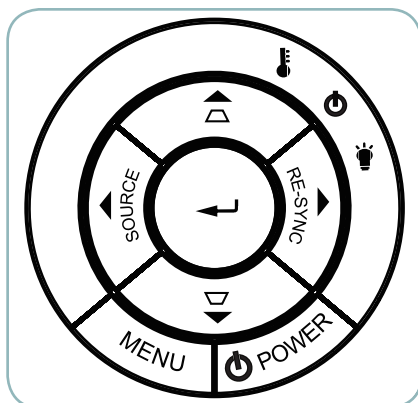
Screen (Diagonal)	Max.	25" (63.5cm)	76" (193.0cm)	126" (320.0cm)	177" (449.6cm)	227" (576.6cm)	303" (769.6cm)
	Min.	23" (58.4cm)	69" (175.3cm)	114" (289.6cm)	160" (406.4cm)	206" (523.2cm)	275" (698.5cm)
Screen Size	Max. (WxH)	20.1" x 15.0" 51 x 38cm	60.6" x 45.3" 154 x 115cm	100.8" x 75.6" 256 x 192cm	141.3" x 105.9" 359 x 269cm	181.9" x 136.2" 462 x 346cm	242.1" x 181.9" 615 x 462cm
	Min. (WxH)	18.5" x 13.8" 47 x 35cm	55.1" x 41.3" 140 x 105cm	91.7" x 68.5" 233 x 174cm	128.3" x 96.1" 326 x 244cm	165.0" x 123.6" 419 x 314cm	219.7" x 165.0" 558 x 419cm
Hd	Max.	2.36" (6.0cm)	7.09" (18.0cm)	11.42" (29.0cm)	16.14" (41.0cm)	20.47" (52.0cm)	27.17" (69.0cm)
	Max.	1.97" (5.0cm)	5.91" (15.0cm)	10.63" (27.0cm)	14.57" (37.0cm)	18.50" (47.0cm)	24.41" (62.0cm)
Distance		3.3' (1.0m)	9.8' (3.0m)	16.4' (5.0m)	23.0' (7.0m)	29.5' (9.0m)	39.4' (12.0m)

❖ This graph is for user's reference only.

Control Panel & Remote Control

*There are two ways for you to control the functions:
Control Panel and Remote Control.*

Control Panel

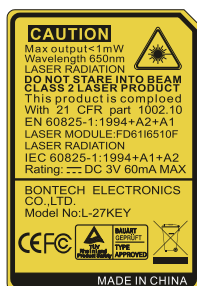
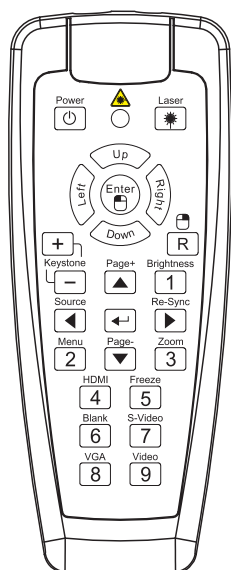


Using the Control Panel

Power	Refer to the "Power On/Off the Projector" section on pages 13-14.
Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.
Enter	Confirm your item selection.
Source	Press "Source" to select the input signal source.
Re-Sync	Automatically synchronize the projector to the input source.
Keystone ▽/△	Adjust image distortion caused by tilting the projector (±18 degrees)
Four Directional Select Keys	Use ▲▼◀▶ to select items or make adjustments to your selection.
⏻ Power LED	Indicate the projector's status.
💡 Lamp LED	Indicate the projector's lamp status.
🌡 Temp LED	Indicate the projector's temperature status.

User Controls

Remote Control

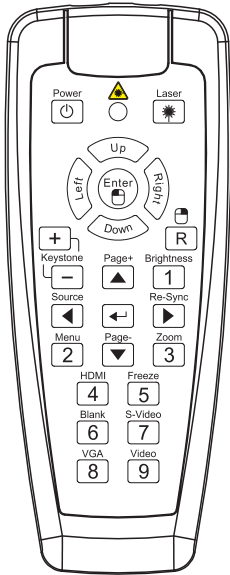


Using the Remote Control

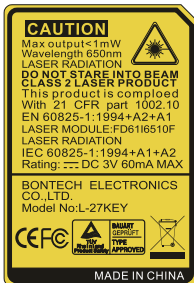
Power		Refer to the "Power On/Off the Projector" section on pages 13-14.
Laser Button		Aim the remote at the viewing screen, press and hold this button to activate the laser pointer.
PC/ Mouse Control		The PC/ Mouse Control can be used to control mouse movement. The mouse function is enabled using the USB cable to connect your computer and the projector.
Enter		Confirm your item selection/Mouse Left Click
Keystone +/-		Adjust image distortion caused by tilting the projector.
R Button		Mouse Right Click
Page +		Use the button to page up.
Brightness		Adjust the brightness of the image.
Source		Press "Source" to select the input signal source at the next terminal.
Enter		Confirm your item selection.
Re-Sync		Automatically synchronize the projector to the input source.
Component		Press "Component" to choose Component video source.
Menu		Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.

User Controls

Remote Control



Page -	Use the button to page down.
Zoom	Zoom the projector display in or out.
HDMI	Press "HDMI" to choose source from HDMI connector.
Freeze	Press "Freeze" to pause the screen image. Press this button again to unlock.
Blank	Momentarily turn off the video. Press this button again to unlock.
S-Video	Press "S-Video" to choose S-Video source.
VGA	Press "VGA" to choose VGA source.
Four Directional Select Keys	Use  to select items or make adjustments to your selection.
Video	Press "Video" to choose Composite video source.

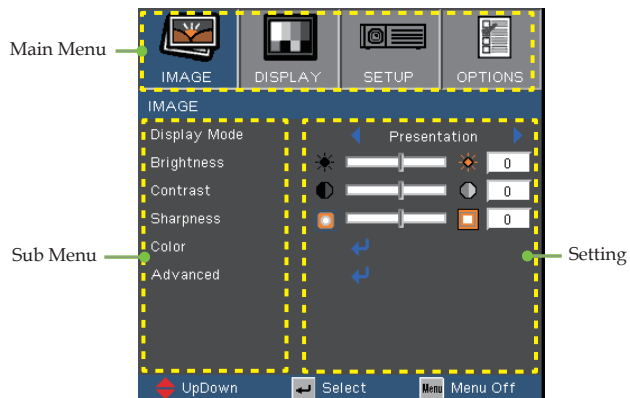


On-screen Display Menu

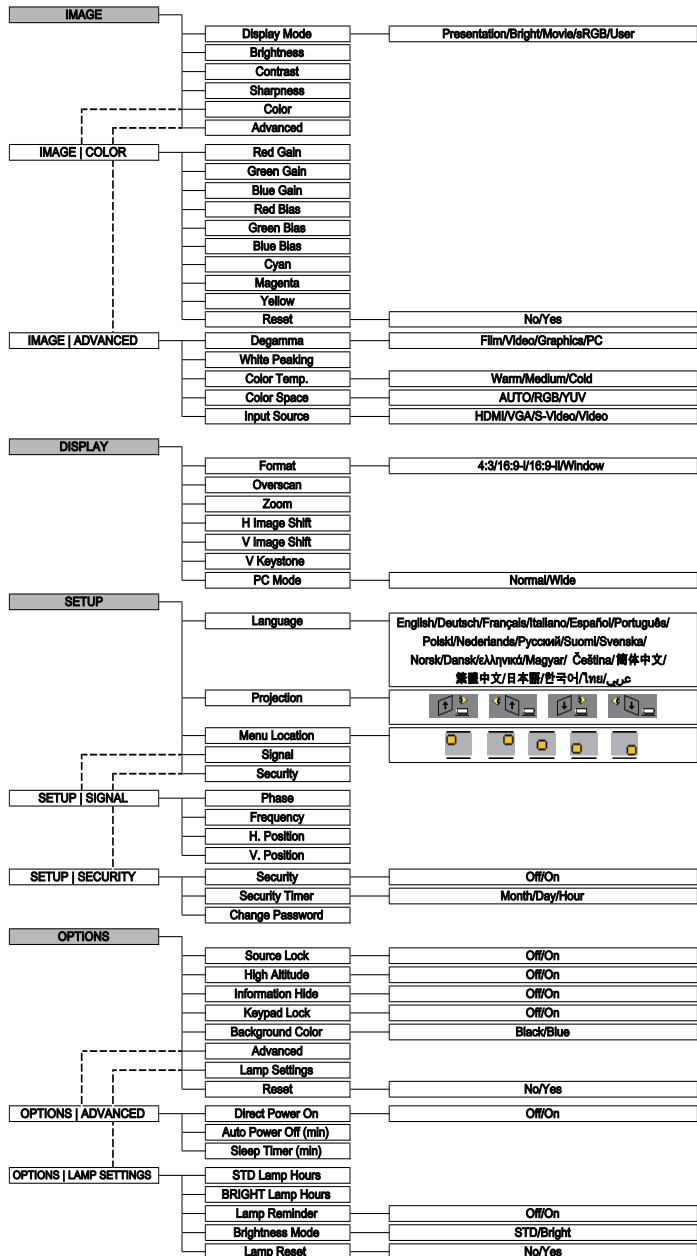
The Projector has multilingual On-screen Display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

How to operate

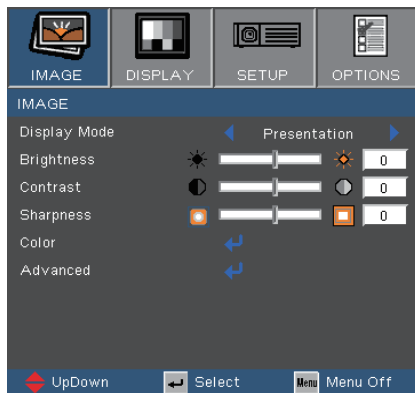
1. To open the OSD menu, press “Menu” on the Remote Control or Projector Keypad.
2. When OSD is displayed, use ◀▶ keys to select any item in the main menu. While making a selection on a particular page, press ▼ or “Enter” key to enter sub menu.
3. Use ▲▼ keys to select the desired item and adjust the settings by ◀▶ key.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press “Enter” to confirm, and the screen will return to the main menu.
6. To exit, press “Menu” again. The OSD menu will close and the projector will automatically save the new settings.



Menu Tree



Image



Display Mode

There are many factory presets optimized for various types of images.

- ▶ Presentation: Good color and brightness from PC input.
- ▶ Bright: Maximum brightness from PC input.
- ▶ Movie: For home theater.
- ▶ sRGB: Standardised accurate color.
- ▶ User: Memorize user's own settings.

Brightness

Adjust the brightness of the image.

- ▶ Press the ◀ to darken image.
- ▶ Press the ▶ to lighten the image.

Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

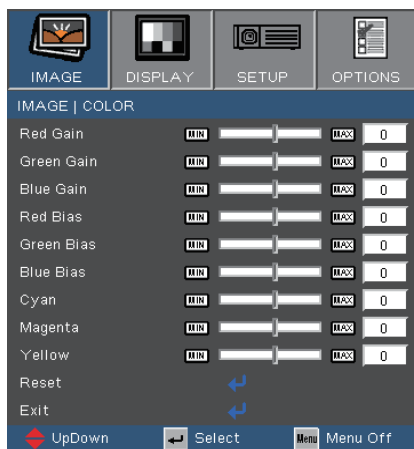
- ▶ Press the ◀ to decrease the contrast.
- ▶ Press the ▶ to increase the contrast.

Sharpness

Adjust the sharpness of the image.

- ▶ Press the ◀ to decrease the sharpness.
- ▶ Press the ▶ to increase the sharpness.

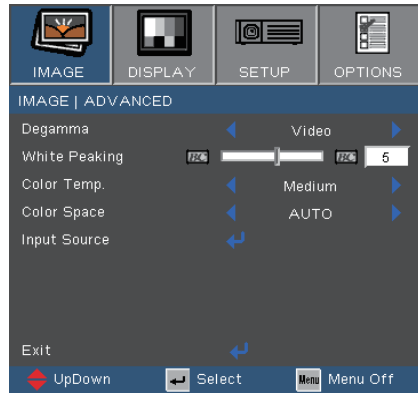
Image | Color



Color

- ▶ Use ▲ or ▼ to select item. Use ◀ or ▶ to select Red, Green, or Blue for brightness (Gain) and contrast (Bias).
- ▶ Adjust the Cyan, Magenta and Yellow colors or return to the factory default settings for advanced adjustment of the individual colors.

Image | Advanced



Degamma

This allows you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

- ▶ Film: for home theater.
- ▶ Video: for video or TV source.
- ▶ Graphics: for image source.
- ▶ PC: for PC or computer source.

White Peaking

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from “0” to “10”. If you prefer a stronger enhanced image, adjust toward the maximum setting. For a smoother, more natural image, adjust toward the minimum setting.

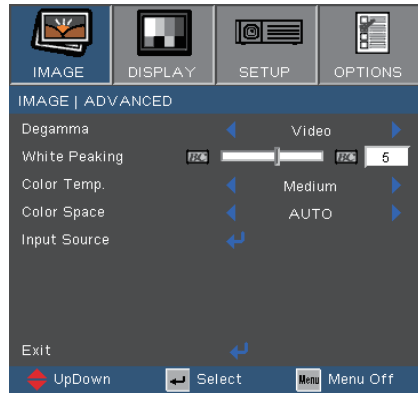
Color Temp.

Adjust the color temperature. With cold temperature, the screen looks colder; with Warm temperature, the screen looks warmer.

Color Space

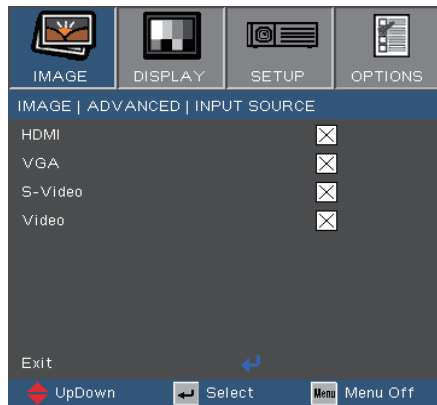
Select an appropriate color matrix type from AUTO, RGB, YUV.

Image | Advanced

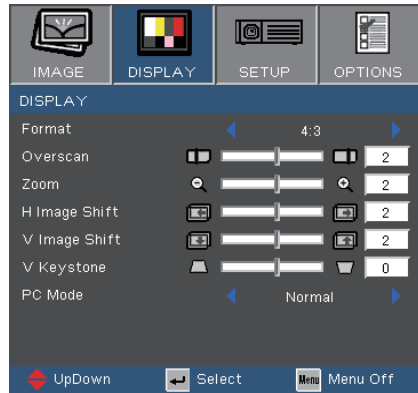


Input Source

Enable input sources. Press into the next menu as below and then use or to select. Press "Enter" to finalize the selection. The projector will not search inputs that are de-selected.



Display



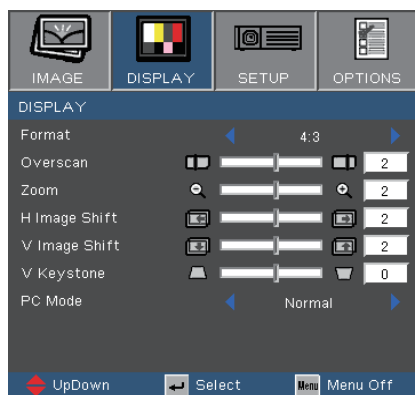
Format

Use this function to choose your desired aspect ratio.

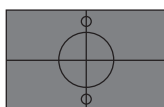
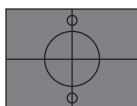
- ▶ 4:3: This format is for 4x3 input sources not enhanced for Wide screen TV.
- ▶ 16:9 I: This format is for 16x9 input sources, like widescreen PC, HDTV and DVD enhanced for Wide screen TV. (576i/p)
- ▶ 16:9 II: This format is for 16x9 input sources, like HDTV and DVD enhanced for Wide screen TV. (480i/p)
- ▶ Window: When a 4:3 image is bigger than a 16:9 screen, select the "Window" mode to fit the image onto the screen without changing the projection distance.

Source	480i/p	576i/p	720p	1080i	PC
4:3	Scale to 1024 x 768				
16:9 I	Scale to 1024 x 576				
16:9 II	Scale to 854 x 480				
Window	Scale to 800 x 600				

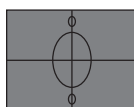
Display



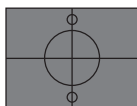
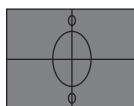
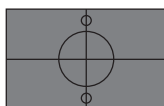
Input Signal



or

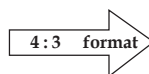


or

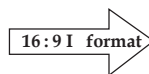
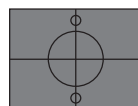


□ Display area
■ Picture area

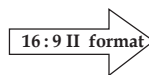
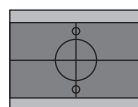
Display on Screen



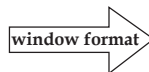
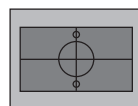
4:3 format



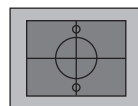
16:9 I format



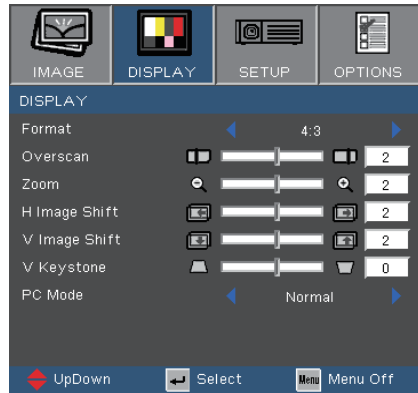
16:9 II format



window format



Display



Overscan

Overscan function removes the noise in a video image. Overscan the image to remove video encoding noise on the edge of video source.

Zoom

- ▶ Press the ◀ to reduce the size of an image.
- ▶ Press the ▶ to magnify an image on the projection screen.

H Image Shift

Shift the projected image position horizontally.

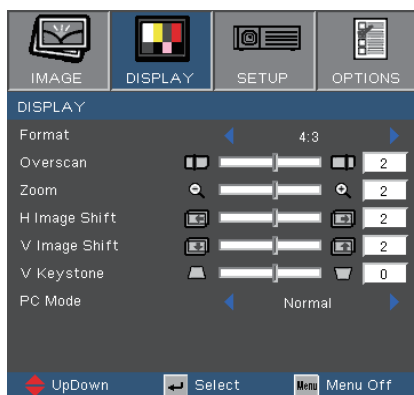
V Image Shift

Shift the projected image position vertically.

V Keystone

Press the ◀ or ▶ to adjust image distortion vertically and make a squarer image.

Display



PC Mode

This Mode is only for use when using this projector unit with a PC signal, either via an Analog or Digital connector.

- ▶ **Wide:** If your PC output is a wide screen format resolution, you must select this setting.

Examples of Wide screen resolutions are: 720 x 400 / 854 x 480 / 1280 x 720 / 1280 x 768.

- ▶ **Normal:** If your PC output is a Normal (4:3) resolution you must select this setting.

Examples of Normal resolutions are: 640 x 480 / 800 x 600 / 1024 x 768 / 1152 x 870 (*for MAC) / 1280 x 1024 / 1400 x 1050.

* All supported resolutions are listed on page 46.

Setup

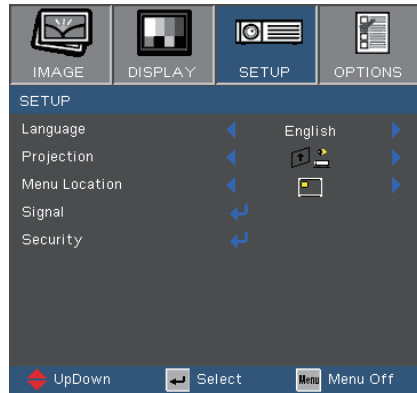


Language

Choose the multilingual OSD menu. Press ◀ or ▶ into the sub menu and then use the ▲ or ▼ key to select your preferred language. Press “Enter” to finalize the selection.



Setup



Projection

- ▶  Front-Desktop

The factory default setting.

- ▶  Rear-Desktop

When you select this function, the projector reverses the image so you can project behind a translucent screen.

- ▶  Front-Image Inverted

When you select this function, the projector turns the image upside down.

- ▶  Rear-Image Inverted

When you select this function, the projector reverses and turns the image upside down at same time. You can project from behind a translucent screen.

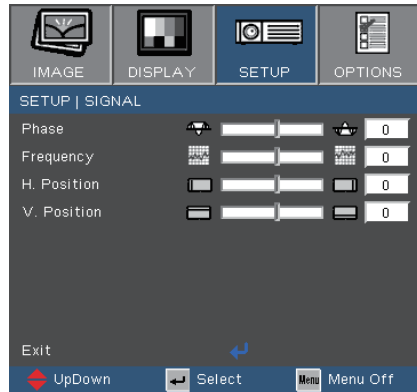


❖ When the projector inverted display is selected, the Brightness mode under Lamp Settings will only be in *Bright*.

Menu Location

Choose the menu location on the display screen.

Setup | Signal



- ❖ “Signal” menu is only supported in Analog VGA (RGB) signal.

Phase

“Phase” synchronizes the signal timing of the display with the graphic card. If you experience an unstable or flickering image, use this function to correct it.

Frequency

“Frequency” changes the display data frequency to match the frequency of your computer’s graphic card. If you experience a vertical flickering bar, use this function to make an adjustment.

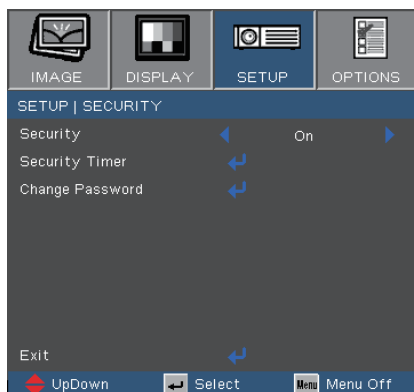
H. Position

- ▶ Press the ◀ to move the image left.
- ▶ Press the ▶ to move the image right.

V. Position

- ▶ Press the ◀ to move the image down.
- ▶ Press the ▶ to move the image up.

Setup | Security



Security

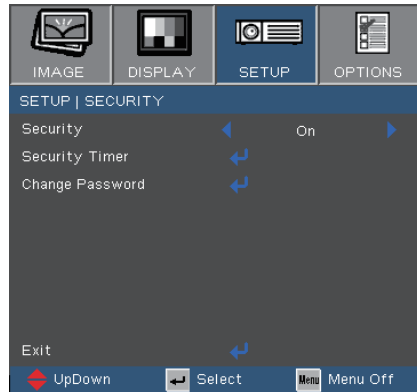
- ▶ On: Choose "On" to use security verification when turning on the projector.
- ▶ Off: Choose "Off" to be able to switch on the projector without password verification.

Security Timer

Select the time (Month/Day/Hour) function to set the number of hours which the projector can be used. Once this time has elapsed, you will be requested to enter your password again.



Setup | Security

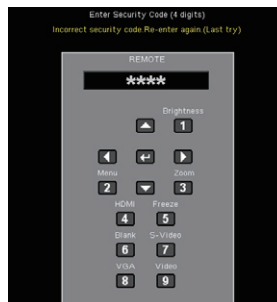


■ First Time:

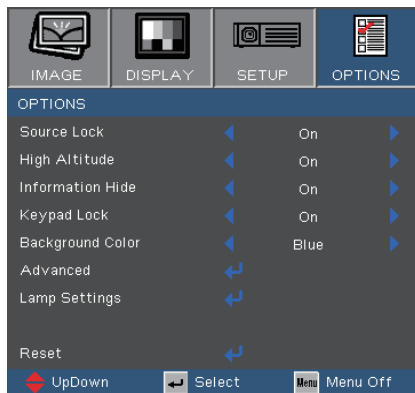
1. The Password is 4 digits, DEFAULT VALUE is "1234". (first time)
2. Use number buttons on the remote to select your password, and then press "↵" key to confirm your selection.

Change Password

1. Press "↵" to input old password.
2. Use number button to enter current password, and then press "↵" key again to reveal next OSD menu.
3. Scroll down to highlight Password, and then press "↵" to activate.
4. Enter new password (4 digits in length) using the number buttons on the remote, then press "↵" to confirm.
5. Enter new password again and press "↵" to confirm.



Options



Source Lock

- ▶ On: The projector will search specified connection port.
- ▶ Off: The projector will search for other signals if the current input signal is lost.

High Altitude

Choose "On" to turn on High Altitude mode. Operate the fans at full speed continuously to allow for proper high altitude cooling of the projector.

Information Hide

- ▶ On: Choose "On" to hide the searching message.
- ▶ Off: Choose "Off" to show the searching message.

Keypad Lock

When the keypad lock function is on, the control panel will be locked, but the projector can still be operated by the remote control. If canceling this function, use the remote control or press the "Enter" key on the control panel for 7 seconds to turn it off.

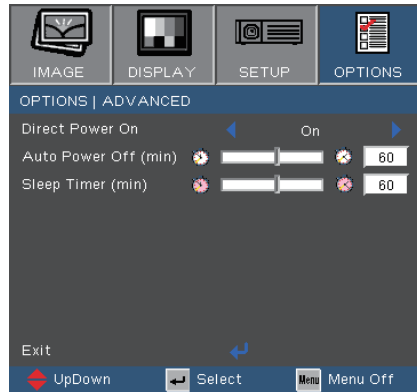
Background Color

Use this feature to display a "Blue" or "Black" screen when no signal is available.

Reset

Choose "Yes" to return the display parameters on all menus to the factory default settings.

Options | Advanced



Direct Power On

Choose "On" to turn on Direct Power On mode. The projector will automatically power on when AC power is supplied, without pressing the "Power" key on the projector control panel or on the remote control.

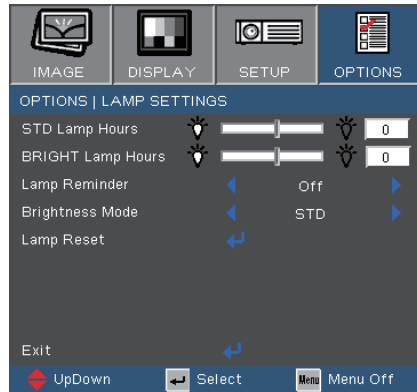
Auto Power Off (min)

Set the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. Then projector will automatically power off when the countdown has finished (in minutes).

Sleep Timer (min)

Set the countdown timer interval. The timer will begin, with or without a signal input. Then the projector will automatically power off then the sleep timer countdown has finished.

Options | Lamp Settings



STD Lamp Hours

Display the projection time of using STD mode.

BRIGHT Lamp Hours

Display the projection time of using BRIGHT mode.

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.

Brightness Mode

- ▶ STD: Choose "STD" to dim the projector lamp which will lower power consumption and extend the lamp life by up to 130%.
- ▶ BRIGHT: Choose "BRIGHT" to increase the brightness.

Lamp Reset

Reset the lamp life hour after replacing the lamp.

Troubleshooting

If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local reseller or service center.

(See pages 47-48 for details)

Image Problems

[?] No image appears on-screen

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the “Installation” section.
- ▶ Ensure all the pins of connectors are not bent or broken.
- ▶ Check if the projection lamp has been securely installed. Please refer to the “Replacing the lamp” section.
- ▶ Make sure you have removed the lens cap and the projector is switched on.

[?] Partial, scrolling or incorrectly displayed image

- ▶ Press “Re-Sync” on the remote.
- ▶ If you are using a PC:

For Windows 95, 98, 2000, XP:

1. Open the “My Computer” icon, the “Control Panel” folder, and then double click on the “Display” icon.
2. Select the “Settings” tab.
3. Verify that your display resolution setting is lower than or equal to SXGA+ (1400 x 1050). (*)
4. Click on the “Advanced Properties” button.



❖ (*) The resolution XGA (1024 x 768) is recommended for computer signal.

If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

5. Verify the resolution setting is lower than or equal to SXGA+ (1400 x 1050).



❖ (*) The resolution XGA (1024 x 768) is recommended for computer signal.

6. Select the “Change” button under the “Monitor” tab.
 7. Click on “Show all devices”. Next, select “Standard monitor types” under the SP box; choose the resolution mode you need under the “Models” box.
 8. Verify that the resolution setting of the monitor display is lower than or equal to SXGA+ (1400 x 1050). (*)
- If you are using a Notebook:
1. First, follow the steps above to adjust resolution of the computer.
 2. Press the toggle output settings. Example: [Fn]+[F4]

Acer ⇒	[Fn]+[F5]	IBM/Lenovo ⇒	[Fn]+[F7]
Asus ⇒	[Fn]+[F8]	HP/Compaq ⇒	[Fn]+[F4]
Dell ⇒	[Fn]+[F8]	NEC ⇒	[Fn]+[F3]
Gateway ⇒	[Fn]+[F4]	Toshiba ⇒	[Fn]+[F5]

Mac Apple:
System Preference ⇒ Display ⇒ Arrangement ⇒ Mirror display

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

[?] The screen of the Notebook or PowerBook computer is not displaying your presentation

- If you are using a Notebook PC
Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer’s manual for detailed information.

[?] Image is unstable or flickering

- Use “Phase” to correct it. See page 32 for more information.
► Change the monitor color setting on your computer.

[?] Image has vertical flickering bar

- Use “Frequency” to make an adjustment. See page 32 for more information.
► Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

[?] Image is out of focus

- ▶ Make sure the lens cap is removed.
- ▶ Adjust the Focus Ring on the projector lens.
- ▶ Make sure the projection screen is between the required distance 3.3 to 39.4 feet (1.0 to 12.0 meters) from the projector. See page 16.

[?] The image is stretched when displaying 16:9 DVD title

When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16:9 format on projector side.

If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.

If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:

- ▶ Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

[?] Image is too small or too large

- ▶ Adjust the Zoom Ring on the top of the projector.
- ▶ Move the projector closer to or further from the screen.
- ▶ Press [Menu] button on the remote control or projector panel, go to "Display → Format" and try the different settings.

[?] Image has slanted sides



❖ Use of Keystone is not recommended.

- ▶ If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- ▶ Press [Keystone +/-] button until the sides are vertical on the remote control.

[?] Image is reversed

- ▶ Select "Setup → Projection" from the OSD and adjust the projection direction.

Intermission Problems

[?] The projector stops responding to all controls

- ▶ If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.

[?] Lamp burns out or makes a popping sound

- ▶ When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the “Replacing the Lamp” section on pages 44-45.

Projector Status Indication

[?] LED lighting message

Message	Power LED	Temp LED	Lamp LED
	(Green/Amber)	(Red)	(Red)
Standby State (Input power cord)	Amber	○	○
Power on (Warming)	Flashing Green	○	○
Lamp lighting	Green	○	○
Error (Over Temp.)	○	☀	○
Error (Fan fail)	○	Flashing (1 sec on, 1 sec off)	○
Error (Lamp fail)	○	○	☀



Steady light ⇨ ☀

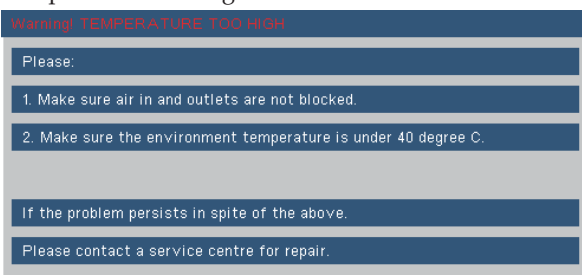
No light ⇨ ○

Message Reminders

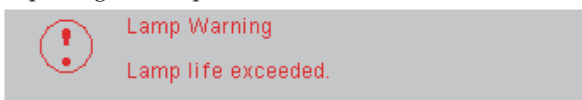
► Fan failed:



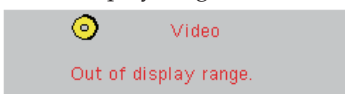
► Temperature warning:



► Replacing the lamp:



► Out of display range:



Remote Control Problems

- [?]** If the remote control does not work
- ▶ Check the operating angle for the remote control is approximately $\pm 22.5^\circ$.
 - ▶ Make sure there are no obstructions between the remote control and the projector. Move to within 6 m (20 ft) of the projector.
 - ▶ Make sure the batteries are inserted correctly.
 - ▶ Make sure batteries are exhausted. If so, replace weak batteries in the remote control.

Replacing the lamp

The projector automatically detects the lamp life. When the lamp life is nearing the end of use, you will receive a warning message.



Lamp Warning

Lamp life exceeded.

When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.



CAUTION!



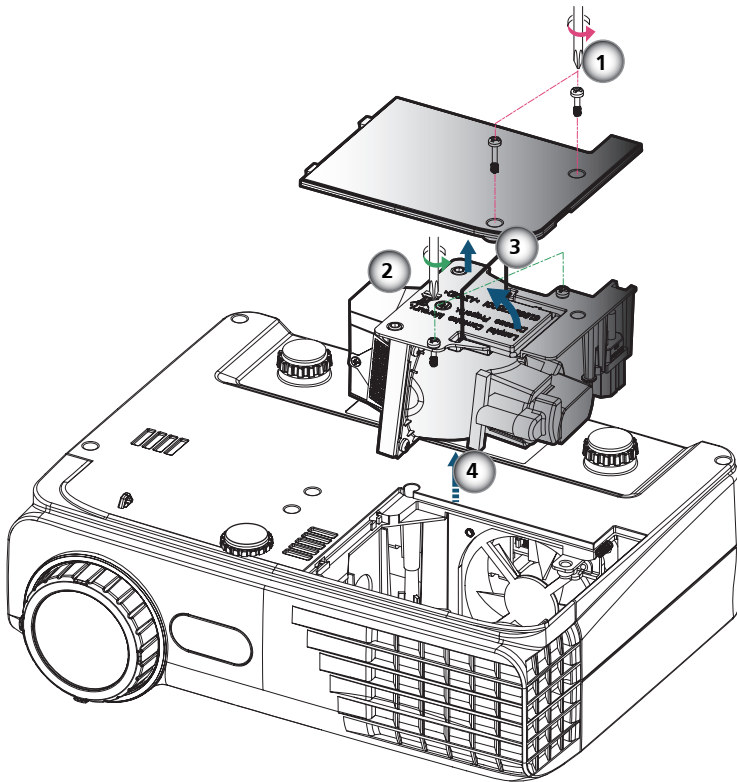
HIGH TEMPERATURE COOL FOR 30 MINUTES.
HIGH PRESSURE LAMP MAY EXPLODE IF
IMPROPERLY HANDED. REFER TO LAMP
REPLACEMENT INSTRUCTIONS. DISCONNECT
POWER BEFORE CHANGING LAMP. REPLACE
ONLY WITH PHOENIX SHP 180W DC.
ATTENTION:
A HAUTES TEMPERATURES REFROIDISSEZ
PENDANT 30 MINUTES. Les lampes à haute
pression peuvent exploser si elles sont mal utilisées.
Confier l'entretien à une personne qualifiée.
COUPER LE COURANT AVANT DEREPLACER LE
LAMPES. NE REMPLACEZ QUE DES LAMPES
PHOENIX SHP 180W DC.



Warning: Lamp compartment may be hot! Allow it to cool down before changing the lamp!



Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.



○ Lamp Replacement Procedure: ○

1. Switch off the power to the projector by pressing the "Power" button.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Use a screwdriver to unscrew the 2 screws from the cover then push up and remove the cover. ❶
5. Use a screwdriver to unscrew the 2 screws from the lamp module. ❷
6. Pull up the lamp handle carefully. ❸
7. Pull out and remove the lamp module. ❹

To replace the lamp module, reverse the previous steps.

8. Turn on the projector and use "Lamp Reset" after the lamp module is replaced.

Lamp Reset: (i) Press "Menu" → (ii) Select "Options" → (iii) Select "Lamp settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

Compatibility Modes

► Computer Compatibility

Mode	Resolution	V-Sync (Hz)	
		Analog	Digital
VGA	640 x 480	60, 72, 75, 85	60, 72, 75, 85
VGA	720 x 400	70, 85	70, 85
SVGA	800 x 600	56, 60, 72, 75, 85	56, 60, 72, 75, 85
SVGA	832 x 624	72	72
XGA	1024 x 768	60, 70, 75, 85	60, 70, 75, 85
XGA	1152 x 864	60, 70, 75, 85	60, 70, 75, 85
* WXGA	1280 x 720	50, 60	***
* WXGA	1280 x 768	60	60
* WXGA	1280 x 800	60	60
* SXGA	1280 x 1024	60, 75	60, 75
* SXGA+	1400 x 1050	60	60
MAC LC 13"	640 x 480	66.66	***
MAC II 13"	640 x 480	66.68	***
MAC 19"	1024 x 768	75	***
* MAC	1152 x 870	75.06	***
MAC G4	640 x 480	60	60, 70
i MAC DV	1024 x 768	75	***
* i MAC DV	1152 x 870	75	***
* i MAC DV	1280 x 960	75	***
480i/p	720 x 480	***	60
576i/p	720 x 576	***	50
* 720p	1280 x 720	***	50, 60
* 1080i	1920 x 1080	***	50, 60



❖ “*” compressed computer image.



❖ For widescreen resolution (WXGA), the compatibility support is dependent on Notebook/PC models.”

► Video Compatibility

NTSC	M (3.58MHz), 4.43 MHz, 480i/p @60Hz
PAL	B, D, G, H, I, M, N, 576i/p @50Hz
SECAM	B, D, G, K, K1, L
HDTV	480p, 576p, 720p, 1080i (50/60 Hz)

Regulation & Safety notices

This appendix lists the general notices of your projector.

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

Disposal instructions



Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.